

DELETED REPLACEMENT SHEET

(g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).

FIGURE ONE

RING MUTE FROM VARIOUS ANGLES

A) Horizontal View of the Mute

- 1. Opening
- 2. Flexible Foam Urethane Ring .625 Inches Thick
- 3. 1 Inch Wide Adhesive Tape Strip 9 Mils Thick, Attached to the Outer Section
of the 1.25 Inch Wide Urethane Foam Ring
- 4. Inner Area of the Ring Mute Showing the .25 Inch Deep Incision

B) Front View of Mute

- 1. Opening
- 2. Flexible Foam Urethane Ring .625 Inches Thick
- 3. 1 Inch Wide Adhesive Tape Strip 9 Mils Thick, Attached to the Outer Section
of the 1.25 Inch Wide Urethane Foam Ring
- 4. Inner Area of the Ring Mute Showing the .25 Inch Deep Incision

C) Vertical View of the Mute

- 1. Opening
- 2. Flexible Foam Urethane Ring .625 Inches Thick
- 3. 1 Inch Wide Adhesive Tape Strip 9 Mils Thick, Attached to the Outer Section
of the 1.25 Inch Wide Urethane Foam Ring
- 4. Inner Area of the Ring Mute Showing the .25 Inch Deep Incision

FIGURE TWO

Horizontal View of the Mute

REPLACEMENT SHEET

(g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).

In drawings forming a portion of the disclosure of this invention:

FIG. 1 is a cut away view of the present invention attached to the bell rim of a brass musical instrument.

FIG. 2 is a three part view showing the dimensions of the present invention without a brass musical instrument.

FIG. 3 is an angled frontal view of the present invention attached to the bell rim of a brass musical instrument.

FIG. 4 is an angled rear view of the present invention attached to the bell rim of a brass musical instrument.

REPLACEMENT SHEET

(h) DETAILED DESCRIPTION OF THE INVENTION.

The present invention is a non adjustable, non resonating device for dampening the sound of a brass musical instrument by the use of a sound absorbing, open cell, flexible, urethane foam, which is formed into a ring and placed on the bell rim of a brass musical instrument without the use of screws or wires for attachment.

With references to Figures 1 through 4, the present invention is shown. The present invention 6 is shown with the urethane foam body 5 with an incision 3 fitted onto the bell rim 4 of a brass musical instrument 1. Protective adhesive tape 2 is shown encircling the outer portion of the urethane foam body 5.

Mute 6 is shown from three different angles without the brass musical instrument 1 showing the .25 inch deep incision 3 and the .625 inch by 1.25 inch dimensions of the open cell urethane foam body 5 and the 1 inch wide protective adhesive tape 2 with the thickness of 9 mils.

Mute 6 is shown from a frontal angle placed on a brass musical instrument 1. From this angle, the urethane body 5 and the protective adhesive tape 2 are shown.

Mute 6 is shown from a rear angle placed on a brass musical instrument 1. From this angle the urethane body 5 and the protective adhesive tape 2 are shown.

Thus, it is amply demonstrated that the present invention is not comprised of a resonating body nor does it require screws or wires for attachment onto the bell rim of a brass musical instrument. Instead, the present invention is comprised of a sound absorbing or dampening material (As defined by American National Standards Institute (ANSI) S1.1-1994 Acoustical Terminology) shaped into a ring and placed onto the bell rim of a brass musical instrument. By the use of a non adjustable sound proofing ring made of flexible, open cell, urethane foam (Which by definition is commonly used for sound proofing. ChemIndustry.Com) placed on the bell rim of a brass musical instrument, the sound of the brass musical instrument is damped. Also, bell design will vary greatly from one type of brass musical instrument to a

different type of brass musical instrument, for example the difference between a
trombone and a tuba. This will require the dimensions of the present invention to
vary in accordance with the instrument to which it is being applied. In addition, bell
design can vary from trumpet to trumpet (A Quick Look At Bell Vibrations, IGT,
Oct. 2001) requiring possible variations in the present invention. However, the
variations in foam ring dimension and the type of sound absorbing foam used will not
result in any loss in the spirit or intent of the present invention to absorb the sound
of a brass musical instrument. Thus, the amount of sound that is absorbed or
dampened is dependent on the dimensions and the type of foam used (American
Micro Industries, Inc.).

- 1. Opening
- 2. Flexible Foam Urethane Ring .625 Inches Thick
- 3. 1 Inch Wide Adhesive Tape Strip 9 Mils Thick, Attached to the Outer Section of the 1.25 Inch Wide Urethane Foam Ring
- 4. Inner Area of the Ring Mute Showing the .25 Inch Deep Incision

FIGURE THREE

Front View of Mute

- 1. Opening
- 2. Flexible Foam Urethane Ring .625 Inches Thick
- 3. 1 Inch Wide Adhesive Tape Strip 9 Mils Thick, Attached to the Outer Section of the 1.25 Inch Wide Urethane Foam Ring
- 4. Inner Area of the Ring Mute Showing the .25 Inch Deep Incision

FIGURE FOUR

Vertical View of the Mute

- 1. Opening
- 2. Flexible Foam Urethane Ring .625 Inches Thick
- 3. 1 Inch Wide Adhesive Tape Strip 9 Mils Thick, Attached to the Outer Section of the 1.25 Inch Wide Urethane Foam Ring
- 4. Inner Area of the Ring Mute Showing the .25 Inch Deep Incision

DELETED REPLACEMENT SHEET

(h) DETAILED DESCRIPTION OF THE INVENTION.

— The present invention (ring mute) is comprised of a flexible foam urethane ring 1.25 inches wide and .625 inches thick with an incision .25 inches deep extending the entire inner circumference of the invention. A non porous adhesive tape strip 1 inch wide and 9 mils thick encircles the entire outer area of the foam ring which helps protect the ring from damage (See Drawings).

DELETED SHEET

DESCRIPTION OF RELATED ART

— Conventionally, if a brass musician (for example trumpet player) wanted to express a round, smooth, smoky sound from an instrument, generally two avenues were taken: Purchase a vintage trumpet (The Martin Company Committee B-flat Trumpet) which tends to have a smooth, rounded, smoky sound due to materials and design. The famous trumpet player Miles Davis who used the Martin Company Committee B-flat Trumpet would be an excellent example of the smooth, rounded, smoky sound); or use a flugelhorn.

— FIG. 1 Vintage trumpet from around the 1940-1950

— FIG. 2 Flugelhorn

— Although no mute on the market creates the sound of the ring mute, several mutes are available to assist the musician with added expressivity. All current mutes are designed to be placed into the bell of the brass musical instrument thus causing more air blow resistance and pitch change. Examples of such mutes are the Harmon mute, the straight mute and the cup mute.

— FIG. 3 Harmon mute

— FIG. 4 Harmon mute with brass instrument

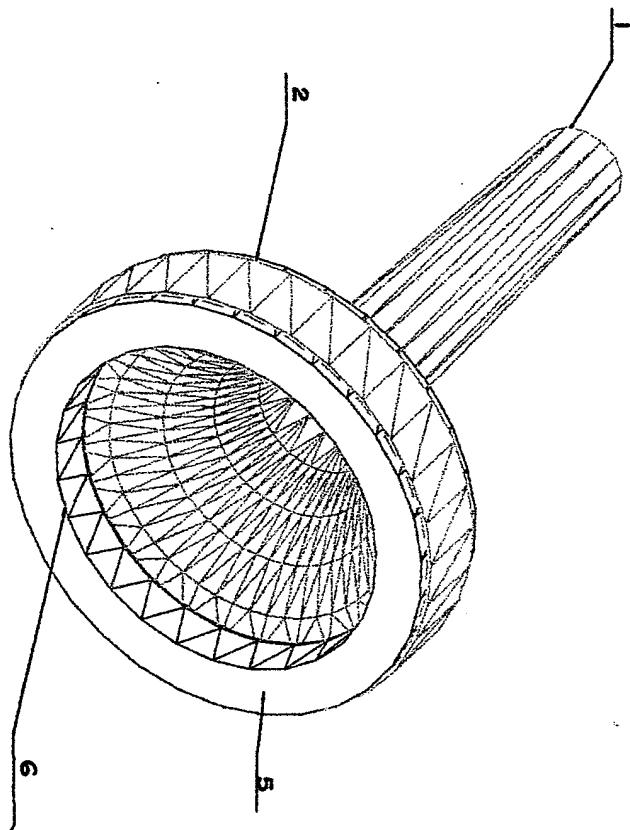
— FIG. 5 Straight mute

— FIG. 6 Straight mute with brass instrument

— FIG. 7 Cup mute

— FIG. 8 Cup mute with brass instrument

Annotated Sheet



Legend	
1	Musical Instrument
2	Adhesive Tape "3ml."
3	Incision
4	Bell
5	Urethane body
6	Mute

Title — Mute For Brass Instrument

Figure: 3

Breast — Full Size Drawn By: UMC

Annotated Sheet

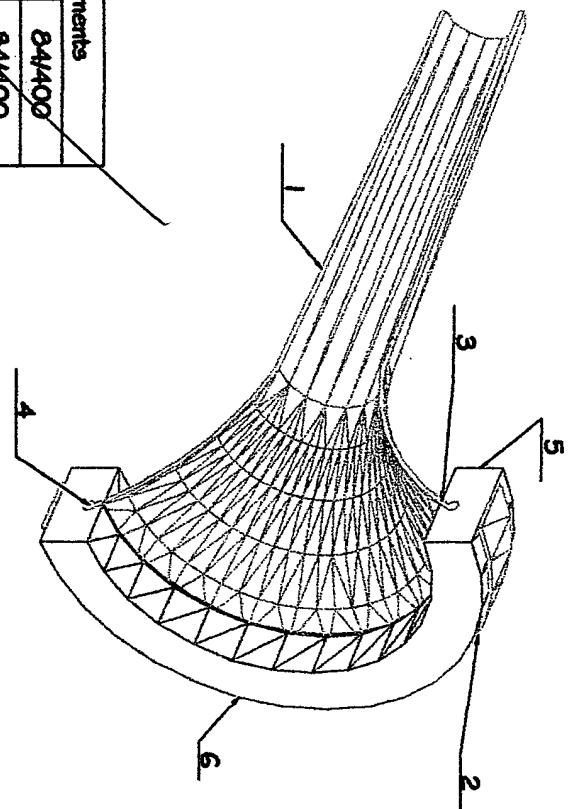
Inventory: Mark M. Shellhammer, Ellen Jane Shellhammer

135 Hall St. Clarksburg, WV 26301

Control #: 10/601,536

Submitted June 2003

Field of Search 84 / 400,453



References Cited U.S. Patent Documents

References Cited U.S. Patent Documents			
D69112	Dec., 1925	Buskey	84400
1508024	Sept., 1924	McArthur	84400
1644272	Oct., 1927	Pinard	84400
1741835	Dec., 1929	Ganther	84453
2657609	Nov., 1953	Stockbach	84453
3016782	Jan., 1962	Latz	84400
3089183	July., 1963	Alles	84400
3299794	Jan., 1967	Ventura	84400
3760679	Sept., 1977	Gosack, Et AL	84400
4012983	March., 1977	Fleeger	84400
4632003	Dec., 1986	Kopp	84400
49988959	March., 1991	Purdie	84400

REPLACEMENT SHEET ABSTRACT OF THE DISCLOSURE.

The present invention (ring mute) is a device comprised of a sound absorbent foam urethane ring with an incision encircling the inner section of the ring with an adhesive strip encircling the outer section of the ring to protect the foam ring from damage. The ring mute is designed to fit onto and around the rim of the bell of a brass musical instrument. The rim of the bell fits into the incision located in the inner section of the foam ring. The purpose of the ring mute is to dampen the sound of a brass musical instrument.

3 CLAIMS 4 DRAWINGS

Foreign Patent Documents			
374167	April 1923	DD	84400

Title

— Mutes For Brass Instrument

Figure: 1

Annotated Sheet

Legend	
1	Musical Instrument
2	Adhesive Tape "9ml."
3	Incision
4	Balloon
5	Urethane Body
6	Mute

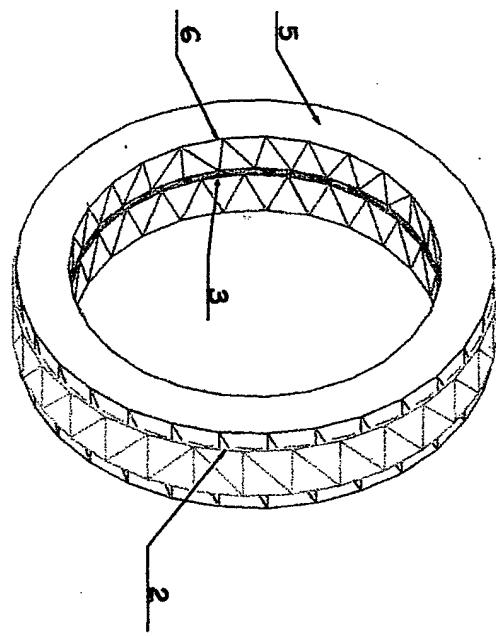
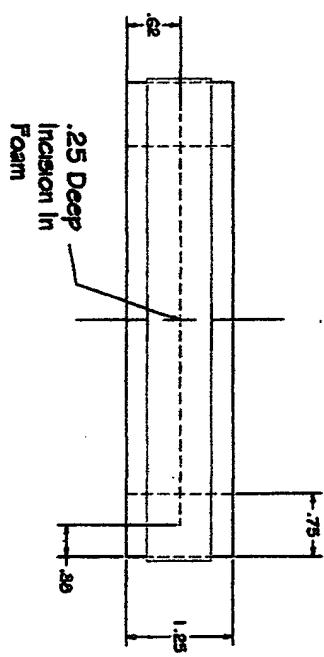
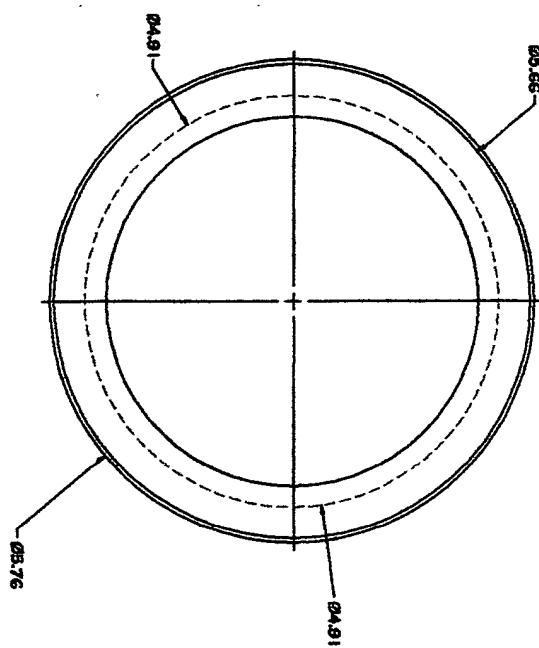


Figure -- Mute For Brass Instrument
Figure: 2
© 1984 - Full Size Drawing - Dycor Inc.